ABSTRACT

In a mobile node supporting router connected to a network on which a Mobile IPv4/v6 operates, an encapsulating cache stores binding information of a mobile node, and a processor encapsulates a packet addressed to the mobile node with a care-of address included in the binding information at a foreign link interface. Also, the processor receives a binding demand packet from the mobile node, and stores the binding information included in the binding demand packet in the encapsulating cache. Furthermore, the processor of the foreign link interface exchanges mobile IP messages instead of a home agent of the mobile node, and the cache stores the binding information of the mobile node included in the message.